

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

217139US77

SERIAL NO.

10/023,894

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

William M. CANFIELD, et al.

FILING DATE

December 21, 2001

GROUP

1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
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	AH						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	ZHAO, K.W., et al., "Purification and Characterization of Human Lymphoblast N-acetylglucosamine-1-phosphotransferase. Glycobiol. 1992, Vol. 2, No. 2, pages 119-125. <i>on 2/27/03 1849</i>
	AX	MULLIS, K.G., et al., "Purification and Kinetic Parameters of Bovine Liver N-acetylglucosamine-1-phosphodiester- α -N-acetylglucosaminidase. J. Biol. Chem. January 1994, Vol. 269, No. 3, pages 1718-1726. <i>on 2/23/04 1849</i>
	AY	DO, H. et al., "Human Mannose 6-Phosphate-uncovering Enzyme is Synthesized as a Proenzyme that is Activated by the Endoprotease Furin. August 2002, J. Biol. Chem., Vol. 277, No. 33, pages 29737-29744
	AZ	LEE, W.S., et al., "Multiple Signals Regulate Trafficking of the Mannose 6-Phosphate-uncovering Enzyme. February 2002, Vol. 277, No. 5, pages 3544-3551. <i>5, Biol. Chem.</i>

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 217139US77		SERIAL NO. 10/023,894	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001		GROUP 1652	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOC NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
C/A	AA	6,118,045	09/12/045	REUSER ET AL			
	AB	5,939,279	08/17/99	SMITH			
	AC	5,932,211	08/03/99	WILSON ET AL			
	AD	5,929,036	07/27/99	McEVER			
	AE	5,928,928	07/27/99	AERTS			
	AF	5,919,913	07/06/99	NUYENS ET AL			
	AG	5,919,690	07/06/99	KNAP ET AL			
	AH	5,917,122	06/29/99	BYRNE			
	AI	5,916,911	06/29/99	SHAYMAN EET AL			
	AJ	5,916,870	06/29/99	LEE ET AL			
	AK	5,914,231	06/22/99	HENNINK ET AL			
	AL	5,912,146	06/15/99	NISHIMURA ET AL			
	AM	5,911,704	06/15/99	HUMES			
	AN	5,906,817	05/25/99	MOULLIER ET AL			
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	AR						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW	Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990.					
	AX	SLY, "The Missing Link in Lysosomal Enzyme Targeting", The Journal of Clinical Investigation, Vol. 105, No. 5, Pages 563-564, March 2000					
	AY	Raas-Rothschild et al, "Molecular Basis of Variant Pseudo-Hurler Polydystrophy (Mucopolidosis IIIC)", The Journal of Clinical Investigation, Vol. 105, No. 5, pp. 673-681, March 2000					
	AZ	Bao et al., "Bovine Udp-N-Acetylglucosamine: Lysosomal-Enzyme N-Acetylglucosamine-1- Phosphotransferase", The Journal of Biological Chemistry, Vol. 271, No. 49, pp. 31448-31451, December 6, 1996					
Examiner C/A					Date Considered 3/4/04		
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APPLICANT

William M. CANFIELD

FILING DATE
DECEMBER 21, 2001

GROUP

1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
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	BB	5,879,937	03/09/99	RONCAROLO			
	BC	5,874,297	02/23/99	WU ET AL			
	BD	5,871,946	02/16/99	LUCAS ET AL			
	BE	5,861,491	01/19/99	NUIJENS ET AL			
	BF	5,858,755	01/12/99	LOWE			
	BG	5,858,744	01/12/00	BAUM ET AL			
	BH	5,858,351	01/12/99	PODSAKOFF ET AL			
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	BK	5,849,885	12/15/98	NUYENS ET AL			
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	BM	5,830,916	11/03/98	HANNUM ET AL			
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FOREIGN PATENT DOCUMENTS

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	BO					
	BP					
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	BR					
	BS					
	BT					
	BU					
	BV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

BW	KORNFIELD, "Purification and Multimeric Structure of Bovine N-Acetylglucosamine-1-Phosphodiester α -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 273, No. 36, pp. 23203-23210, September 4, 1998
BX	Joan M. MOEHRING et al., "Strains of CHO-K1 Cells Resistant to <i>Pseudomonas</i> Exotoxin A and Cross-Resistant to Diphtheria Toxin and Viruses", Infection and Immunity, Vol. 41, No. 3, Sept 1983, pp. 998-1009
BY	Maxime LEHMANN et al., "Lack of integrin α -chain endoproteolytic cleavage in tumor deficient human colon adenocarcinoma cells LoVo", Biochem. J. (1996) 317, 803-809
BZ	Joseph F. SUCIC et al., "Endoprotease PACE4 is Ca^{2+} dependent and temperature-sensitive and can partly rescue the phenotype of a furin deficient cell strain", Biochem. J. (1999) 339, pp. 639-647

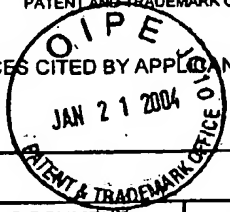
Examiner

Date Considered

3/4/04

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 203510US77		SERIAL NO. 10/023,890	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001		GROUP 1652	



U.S. PATENT DOCUMENTS							
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CJ	CA	5,830,711	11/03/98	BARANY ET AL			
	CB	5,807,943	09/15/98	LEE ET AL			
	CC	5,798,448	08/25/98	CARAS ET AL			
	CD	5,798,239	08/25/98	WILSON ET AL			
	CE	5,792,647	08/11/98	ROSEMAN ET AL			
	CF	5,773,236	06/30/98	DIWU ET AL			
	CG	5,759,775	06/02/98	CARAS ET AL			
	CH	5,750,172	05/12/98	MEADE ET AL			
	CI	5,741,957	04/21/98	DEBOER ET AL			
	CJ	5,736,360	04/07/98	GAULTON ET AL			
	CK	5,728,381	03/17/98	WILSON ET AL			
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	CN	5,719,031	02/17/98	HAUGLAND ET AL			

FOREIGN PATENT DOCUMENTS					
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)	
CW	Valery M. GORDON et al., "Proteolytic Activation of Bacterial Toxins by Eukaryotic Cells Is Performed by Furin and by Additional Cellular Proteases", Infection and Immunity, Vol. 63, Jan. 1995, pp.82-87
CX	Noel M. INOCENCIO et al., "Endoprotease Activities Other Than Furin and PACE4 with a Role in Processing of HIV-1 gp160 Glycoproteins in CHO-K1 Cells", JBC Online, Vol. 272, No. 2, January 10, 1997, pp. 1344-1348
CY	Valery M. GORDON et al., "Proteolytic Activation of Bacterial Toxins by Eukaryotic Cells Is Performed by Furin and by Additional Cellular Proteases", Infection and Immunity, Vol. 63, No. 1, Jan. 1995, pp. 82-87
CZ	John L. MIDDLEBROOK et al., "Response of cultured mammalian cells to the exotoxins of Pseudomonas aeruginosa and Corynebacterium diphtheriae: differential cytotoxicity", Can. J. Microbiol. Vol. 23, (1997), pp. 183-189

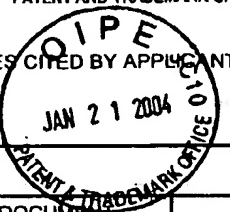
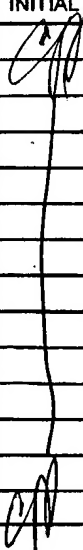

Examiner <i>C. J. Allen</i>	Date Considered <i>3/4/04</i>
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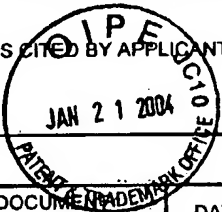
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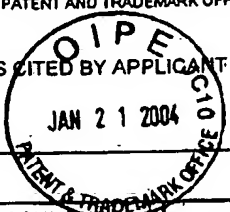

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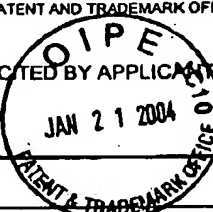
Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 217139US77		SERIAL NO. 10/023,894		
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD				
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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
CA	DA	5,716,614	02/10/98	KATZ ET AL				
	DB	5,707,865	01/13/98	KOHN ET AL				
	DC	5,704,910	08/08/98	HUMES				
	DD	5,696,001	12/09/97	HABENSTEIN				
	DE	5,693,622	12/02/97	WOLFF ET AL				
	DF	5,691,181	11/25/97	LOWE				
	DG	5,686,240	11/11/97	SCHUCHMAN ET AL				
	DH	5,679,545	10/21/97	BAKER ET AL				
	DI	5,665,366	09/09/97	RAWLINGS ET AL				
	DJ	5,663,254	09/02/97	LEE ET AL				
	DK	5,663,076	09/02/97	ROSTOKER ET AL				
	DL	5,658,567	08/19/97	CALHOUN ET AL				
	DM	5,648,335	07/15/97	LEWIS ET AL				
	DN	5,648,229	07/15/97	HABENSTEIN				
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)								
	DW	Barbara H. IGLEWSKI et al., "Mechanism of Action of <i>Pseudomonas aeruginosa</i> Exotoxin A: Adenosine Diphosphate-Ribosylation of Mammalian Elongation Factor 2 In Vitro and In Vivo", <i>Infection and Immunity</i> , Vol. 15, No. 1, Jan. 1977, pp. 138-144.						
	DX	Ayoubi TA et al., "Production of recombinant proteins in Chinese hamster ovary cells overexpressing the subtilisin-like proprotein converting enzyme furin", <i>NCBI, Mol Biol Rep</i> 1996:23(2):87-95						
	DY	Valery M. GORDON et al., "A Role for PACE4 in the Proteolytic Activation of Anthrax Toxin Protective Antigen", <i>Infection and Immunity</i> , Vol. 65, No. 8, Aug. 1997 pp. 3370-3375						
	DZ							
Examiner <i>CA</i>					Date Considered <i>1/10/02</i>			
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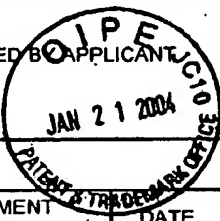
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
EA	EA	5,639,939	06/17/97	McCUNE, III			
	EB	5,639,607	06/17/97	DESNICK ET AL			
	EC	5,633,261	05/27/97	DIME			
	ED	5,633,228	05/27/97	LEWIS ET AL			
	EE	5,627,171	05/06/97	PARK ET AL			
	EF	5,627,073	05/06/97	BAKER ET AL			
	EG	5,624,806	04/29/97	BAKER ET AL			
	EH	5,621,106	04/15/97	DIME			
	EI	5,612,206	03/18/97	VALERIO ET AL			
	EJ	5,585,247	12/17/96	HABENSTEIN			
	EK	5,583,160	12/10/96	IGARASHI ET AL			
	EL	5,578,479	11/26/96	LADERMAN ET AL			
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				FILING DATE December 21, 2001		GROUP 652 652	
U.S. PATENT DOCUMENTS							
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	FA	5,571,675	11/05/96	BAKER ET AL			
	FB	5,569,648	10/29/96	LEWIS ET AL			
	FC	5,565,362	10/15/96	ROSEN			
	FD	5,554,366	09/10/96	RAWLINGS ET AL			
	FE	5,545,402	08/13/96	WATKINSON			
	FF	5,534,615	07/09/96	BAKER ET AL			
	FG	5,512,471	04/30/96	SMITH			
	FH	5,501,957	03/26/96	DENNIS ET AL			
	FI	5,494,810	02/27/96	BARANY ET AL			
	FJ	5,491,075	02/13/96	DESNICK ET AL			
	FK	5,475,095	12/12/95	MYEROWITZ			
	FL	5,466,809	11/14/95	DIME			
	FM	5,449,604	09/12/95	SHELLENBERG ET AL			
	FN	5,443,986	08/22/95	HAUGHLAND ET AL			
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	GD	5,405,751	04/11/95	RONCAROLO			
	GE	5,382,524	01/17/95	DESNICK ET AL			
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U.S. PATENT DOCUMENTS							
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	HC	5,205,917	04/27/93	KLOCK, JR.			
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	HF	5,143,841	09/01/92	HIRABAYSHI ET AL			
	HG	5,126,247	06/30/92	PALMER ET AL			
	HH	5,089,392	02/18/92	MILLER ET AL			
	HI	5,802,778	01/21/92	OVERBEEKE ET AL			
	HJ	5,077,200	12/31/91	HABENSTEIN			
	HK	5,075,231	12/24/91	MOREAU ET AL			
	HL	5,061,025	10/29/91	MATTES ET AL			
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	IL	4,639,420	01/27/87	SCHAFFNER			
	IM	4,615,884	10/07/86	HARSHMAN			
	IN	4,595,015	06/17/86	JANSEN ET AL			
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO			
	IO						
	IP						
	IQ						
	IR						
	IS						
	IT						
	IU						
	IV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	IW						
	IX						
	IY						
	IZ						
Examiner <div style="font-size: 1.5em; margin-top: 10px;">[Handwritten signature]</div>				Date Considered 3/4/04			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 217139US77		SERIAL NO. 10/023,894	
LIST OF REFERENCES CITED BY APPLICANT <div style="text-align: center; margin-top: 20px;">  </div>				APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001		GROUP 1152	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
CJH	JA	4,496,722	01/29/85	GALLOP ET AL			
	JB	4,492,761	01/08/85	DURACK			
	JC	4,474,770	10/02/84	LORMEAU ET AL			
	JD	4,452,794	06/05/84	KORT ET AL			
	JE	4,433,946	02/28/84	CHRISTIANSON ET AL			
	JF	4,431,737	02/14/84	OLIVIERI ET AL			
	JG	4,401,758	08/30/83	LORMEAU ET AL			
	JH	4,401,662	08/30/83	LORMEAU ET AL			
	JI	4,332,894	06/01/82	WHISTLER			
	JJ	4,328,215	05/04/82	BUEDING			
	JK	4,195,126	12/23/80	HALL			
	JL	4,156,013	03/22/79	BRUINVELS ET AL			
	JM	4,140,107	02/20/79	LANCEE ET AL			
	JN	3,972,777	08/03/76	YAMADA ET AL			
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO			
	JO						
	JP						
	JQ						
	JR						
	JS						
	JT						
	JU						
	JV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	JW						
	JX						
	JY						
	JZ						
Examiner CJH				Date Considered 3/6/04			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
217139US77SERIAL NO.
10/023,894

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

William M. CANFIELD

FILING DATE
December 21, 2001

GROUP

1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
MA	AA	3,966,555	06/29/76	ARNAUD ET AL			
	AB	3,957,578	05/18/76	NARITA ET AL			
	AC	RE35,770	04/14/98	LORMEAU ET AL			
	AD	5,773,278	06/30/98	SCHUCHMAN ET AL			
	AE	5,798,366	08/25/98	PLATT ET AL			
	AF	5,635,383	06/03/97	WU ET AL			
	AG	5,968,502	10/19/99	TRECO ET AL			
	AH	5,055,401	10/08/91	LILJESTROEM ET AL			
	AI	5,202,253	04/13/93	ESMON ET AL			
	AJ	5,929,304	07/27/99	RADIN ET AL			
	AK	5,580,757	12/03/96	DESNICK ET AL			
	AL	5,356,804	10/18/94	DESNICK ET AL			
MA	AM	5,401,650	03/28/95	DESNICK ET AL			
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	

Examiner

CP Patton

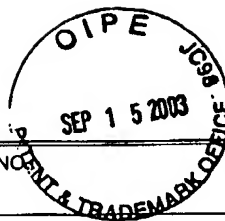
Date Considered 3/4/04

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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001		GROUP 1652	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
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	AJ						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AN						
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
ATHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW	R.O. BRADY, et al., "Modifying Exogenous Glucocerebrosidase for Effective Replacement Therapy in Gaucher Disease", J. Inher. Metab. Dis., Vol. 17, (1994), pp. 510-519					
	AX	Emil D. KAKKIS, et al., "Overexpression of the Human Lysosomal Enzyme α -L-Iduronidase in Chinese Hamster Ovary Cells", Protein Expression and Purification, Vol. 5, (1994), pp. 225-252					
	AY	Ke-Wei ZHAO, et al., "Carbohydrate Structures of Recombinant Human α -L-Iduronidase Secreted by Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, Vol. 272, No. 36, Issue of September 5, 1997, pp. 22758-22765					
	AZ	Robin J. ZIEGLER, et al., "Correction of Enzymatic and Lysosomal Storage Defects in Fabry Mice by Adenovirus-Mediated Gene Transfer", Human Gene Therapy, Vol. 10, pp. 1667-1682, (July 1, 1999)				<input type="checkbox"/> Additional References sheet(s) attached	
Examiner <i>Matthew</i>					Date Considered <i>3/28/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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SHEET 2 OF 2

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 217139US77	SERIAL NO. 10/023,894				
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT William M. CANFIELD					
		FILING DATE December 21, 2001	GROUP 1652				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
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	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						
	BM						
	BN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	BO						
	BP						
	BQ						
	BR						
	BS						
	BT						
	BU						
	BV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	BW	Huaichang SUN, et al., "Retrovirus Vector-Mediated Correction and Cross-Correction of Lysosomal α -Mannosidase Deficiency in Human and Feline Fibroblasts", Human Gene Therapy, Vol. 10, pp. 1311-1319, (May 20, 1999)					
	BX	Aji REUSER, et al., "Lysosomal storage diseases: cellular pathology, clinical and genetic heterogeneity, therapy", Ann Biol Clin., Vol. 52, (1994), pp. 721-728					
	BY						
	BZ	<i>CPH</i>				<input type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered <i>3/4/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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